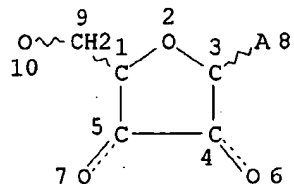


Khare, D.
09/889687

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(FILE 'REGISTRY' ENTERED AT 11:52:13 ON 08 NOV 2004)

L34 STR



NODE ATTRIBUTES:

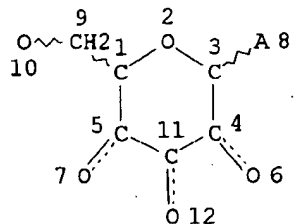
NSPEC IS RC AT 8
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RSPEC I
NUMBER OF NODES IS 10

STEREO ATTRIBUTES: NONE

L35 STR



NODE ATTRIBUTES:

NSPEC IS RC AT 8
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

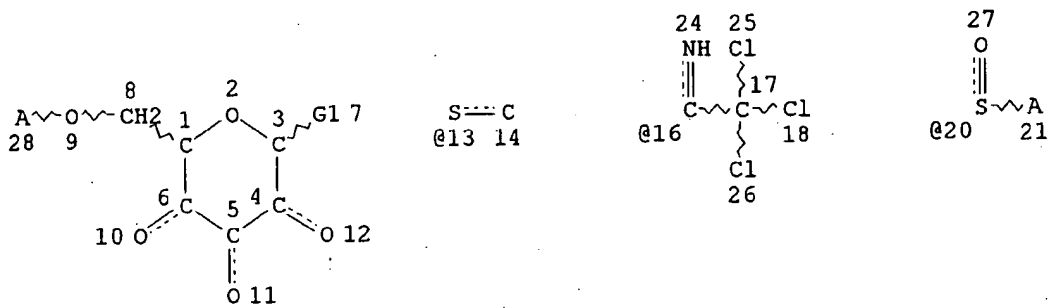
GRAPH ATTRIBUTES:

RSPEC I
NUMBER OF NODES IS 12

STEREO ATTRIBUTES: NONE

L36 299043 SEA FILE=REGISTRY SSS FUL L34 OR L35
L94 STR

09/889687



O~C
@22 23

VAR G1=13/16/20/X/22

NODE ATTRIBUTES:

NSPEC IS RC AT 14

NSPEC IS RC AT 21

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RSPEC I

NUMBER OF NODES IS 26

STEREO ATTRIBUTES: NONE

L95 48207 SEA FILE=REGISTRY SUB=L36 SSS FUL L94

100.0% PROCESSED 177879 ITERATIONS

48207 ANSWERS

SEARCH TIME: 00.00.02

(FILE 'CAPLUS' ENTERED AT 11:53:02 ON 08 NOV 2004)

L96 17261 SEA ABB=ON PLU=ON L95

L97 10615 SEA ABB=ON PLU=ON L96(L) (SPN OR PREP?)/RL

L99 616 SEA ABB=ON PLU=ON L97(L) (OLIGOSACCHARIDE OR OLIGO SACCHARIDE
OR NEOGLYCOCONJUGATE OR GLYCOCONJUGATE OR (NEOGLYCO OR
GLYCO) (W) CONJUGATE)

L101 9 SEA ABB=ON PLU=ON L99(L) BUILD? BLOCK

E1 THROUGH E91 ASSIGNED

L101 ANSWER 1 OF 9 CAPLUS COPYRIGHT 2004 ACS on STN

ED Entered STN: 23 Oct 2002

ACCESSION NUMBER: 2002:803363 CAPLUS

DOCUMENT NUMBER: 138:24924

TITLE: An Orthogonally Protected α,α -
Bis(aminomethyl)- β -alanine Building Block for the
Construction of Glycoconjugates on a Solid Support

Searcher : Shears 571-272-2528

09/889687

AUTHOR(S): Katajisto, Johanna; Karskela, Tuomas; Heinonen, Petri;
Loennberg, Harri
CORPORATE SOURCE: Department of Chemistry, University of Turku, Turku,
FIN-20014, Finland
SOURCE: Journal of Organic Chemistry (2002), 67(23), 7995-8001
CODEN: JOCEAH; ISSN: 0022-3263
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 138:24924

AB Synthetic glycoclusters are extensively used as mimetics of naturally occurring, multivalent carbohydrate ligands in various glycobio- applications. Their preparation, however, is far from trivial, and it still is a limiting factor in the study of carbohydrate binding. The authors herein report the synthesis of an orthogonally protected building block, N-Alloc-N'-Boc-N''-Fmoc- α,α -bis(aminomethyl)- β -alanine (I), and its use in the preparation of triantennary peptide glycoclusters on a

solid support. The assembly of the clusters involves removal of the amino protections of the solid-supported branching unit I in the order Fmoc, Boc, and Alloc, and subsequent coupling of peracetylated O-(glycopyranosyl)-N-Fmoc-L-serine pentafluorophenyl esters (D-galactose, D-glucose, D-mannose, and D-ribose) to each exposed amino group.

IT 152389-14-5P 243469-45-6P 478062-63-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of an orthogonally protected bis(aminomethyl)- β -alanine building block for the solid-phase construction of glycoconjugates)

IT 478062-65-6P 478062-66-7P 478062-67-8P
478062-68-9P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of an orthogonally protected bis(aminomethyl)- β -alanine building block for the solid-phase construction of glycoconjugates)

REFERENCE COUNT: 48 THERE ARE 48 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L101 ANSWER 2 OF 9 CAPLUS COPYRIGHT 2004 ACS on STN

ED Entered STN: 12 Apr 2001

ACCESSION NUMBER: 2001:259282 CAPLUS

DOCUMENT NUMBER: 135:19843

TITLE: Application of novel, N-DTPM protected D-glucosamine building blocks in oligosaccharide synthesis

AUTHOR(S): Singh, L.; Seifert, J.

CORPORATE SOURCE: 3 Hi-Tech Court, Brisbane Technology Park, Alchemia Pty Ltd., Eight Mile Plains, 4113, Australia

SOURCE: Tetrahedron Letters (2001), 42(17), 3133-3136
CODEN: TELEAY; ISSN: 0040-4039

PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 135:19843

AB A study of glycosylation reactions was performed, using novel N-DTPM protected glucosamine donors and acceptors ranging from achiral primary

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alcs. to various alcs. within the D-GlcNAc-, D-Gal- and D-Glu-series. The results show high yielding reactions with good β -selectivities.

IT 342640-48-6P 342640-49-7P 342640-50-0P
342640-51-1P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of **oligosaccharides** via regioselective glycosylation
of novel N-DTPM protected D-glucosamine **building**
blocks)

REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L101 ANSWER 3 OF 9 CAPLUS COPYRIGHT 2004 ACS on STN

ED Entered STN: 28 Feb 2001

ACCESSION NUMBER: 2001:143892 CAPLUS

DOCUMENT NUMBER: 134:237716

TITLE: Automated solid-phase synthesis of oligosaccharides
AUTHOR(S): Plante, Obadiah J.; Palmacci, Emma R.; Seeberger,
Peter H.

CORPORATE SOURCE: Department of Chemistry, Massachusetts Institute of
Technology, Cambridge, MA, 02139, USA

SOURCE: Science (Washington, DC, United States) (2001),
291(5508), 1523-1527

CODEN: SCIEAS; ISSN: 0036-8075

PUBLISHER: American Association for the Advancement of Science

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 134:237716

AB Traditionally, access to structurally defined complex carbohydrates has
been very laborious. Although recent advancements in solid-phase
synthesis have made the construction of complex oligosaccharides less
tedious, a high level of tech. expertise is still necessary to obtain the
desired structures. We describe the automated chemical synthesis of several
oligosaccharides on a solid-phase synthesizer. A branched
dodecasaccharide was synthesized through the use of glycosyl phosphate
building blocks and an octenediol functionalized resin. The target
oligosaccharide was readily obtained after cleavage from the solid
support. Access to certain complex oligosaccharides now has become
feasible in a fashion much like the construction of oligopeptides and
oligonucleotides.

IT 330457-52-8P 330457-55-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP
(Preparation); RACT (Reactant or reagent)

(preparation of branched **oligosaccharides** using solid-phase
synthesis methods using glycosyl phosphate **building**
blocks)

IT 253683-35-1P 253683-36-2P 254442-16-5DP,
resin-bound

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of branched **oligosaccharides** using solid-phase
synthesis methods using glycosyl phosphate **building**
blocks)

REFERENCE COUNT: 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L101 ANSWER 4 OF 9 CAPLUS COPYRIGHT 2004 ACS on STN

ED Entered STN: 19 Oct 2000

Searcher : Shears 571-272-2528

09/889687

ACCESSION NUMBER: 2000:737828 CAPLUS
DOCUMENT NUMBER: 134:17644
TITLE: New phenyl 6,4'-substituted-1-thio- β -maltosides,
building blocks for the synthesis of linear and
branched malto-oligosaccharides
AUTHOR(S): Motawia, Mohammed Saddik; Larsen, Kim; Olsen, Carl
Erik; Moller, Birger Lindberg
CORPORATE SOURCE: Plant Biochemistry Laboratory, Department of Plant
Biology, The Royal Veterinary and Agricultural
University, Copenhagen, DK-1871, Den.
SOURCE: Synthesis (2000), (11), 1547-1556
CODEN: SYNTBF; ISSN: 0039-7881
PUBLISHER: Georg Thieme Verlag
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 134:17644
AB An efficient strategy to synthesize a number of new phenylthio-maltoside
derivs. in yields from 55 to 95% is described. These derivs. can be used
as suitable building blocks for stepwise synthesis of starch derived
malto-oligosaccharides.
IT 5346-81-6P 244286-77-9P 250335-04-7P
259742-11-5P 309913-14-2P 309913-15-3P
309913-16-4P 309913-20-0P 309913-21-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP
(Preparation); RACT (Reactant or reagent)
(preparation of new Ph-substituted-thio- β -maltosides, building
blocks for the synthesis of linear and branched malto-
oligosaccharides)
IT 250335-03-6P 309913-17-5P 309913-18-6P
309913-19-7P 309913-22-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of new Ph-substituted-thio- β -maltosides, building
blocks for the synthesis of linear and branched malto-
oligosaccharides)
REFERENCE COUNT: 41 THERE ARE 41 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L101 ANSWER 5 OF 9 CAPLUS COPYRIGHT 2004 ACS on STN
ED Entered STN: 21 Jul 2000

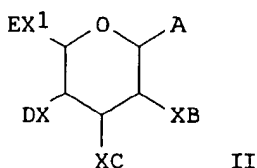
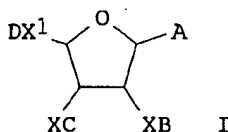
ACCESSION NUMBER: 2000:493559 CAPLUS
DOCUMENT NUMBER: 133:105256
TITLE: Protecting groups for monosaccharides as universal
building blocks for oligosaccharide synthesis
INVENTOR(S): Papageorgiou, John; Dekany, Gyula; Bornaghi, Laurent
Francois
PATENT ASSIGNEE(S): Alchemia Pty. Ltd., Australia
SOURCE: PCT Int. Appl., 53 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000042057	A1	20000720	WO 2000-AU25	20000118

Searcher : Shears 571-272-2528

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W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU,
CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,
IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,
MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI,
SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM,
AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,
DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
CA 2360069 AA 20000720 CA 2000-2360069 20000118
EP 1144430 A1 20011017 EP 2000-902502 20000118
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO
JP 2002538085 T2 20021112 JP 2000-593624 20000118
AU 771708 B2 20040401 AU 2000-24252 20000118
PRIORITY APPLN. INFO.: AU 1999-8230 A 19990118
WO 2000-AU25 W 20000118
OTHER SOURCE(S): MARPAT 133:105256
GI



AB The invention provides collections of orthogonally-protected monosaccharides as universal building blocks for the synthesis of glycoconjugates of non-carbohydrate mols., neo-glycoconjugates, and oligosaccharides. This orthogonal protection strategy allows for the specific deprotection of any substituent on the saccharide ring, and greatly facilitates targeted or library-focused carbohydrate-related syntheses. In particular, the invention provides a universal monosaccharide building block I and II in which A is a leaving group; X is hydrogen, O, N or N3; X1 is hydrogen, CH2O, CH2NH, CH3, CH2N3 or COO; and B, C, D and E are protecting groups that can be cleaved orthogonally, and in which B, C, D and E are absent when X is hydrogen or N3, and E is absent when X1 is hydrogen, CH3 or N3. Thus, Me 6-O-(t-butyldiphenylsilyl)-3-O-(p-chlorobenzoyl)-2-deoxy-2-[1-(4,4-dimethyl-2,6-dioxocyclohex-1-ylidene)ethylamino]-4-O-tetrahydropyranyl-1-thio-β-D-glucopyranoside was prepared as a building block for oligosaccharide synthesis.

IT 151072-06-9P 282526-21-0P 282526-22-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(protecting groups for monosaccharides as universal building blocks for oligosaccharide synthesis)
IT 282526-23-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(protecting groups for monosaccharides as universal building

Searcher : Shears 571-272-2528

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blocks for oligosaccharide synthesis)

REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L101 ANSWER 6 OF 9 CAPLUS COPYRIGHT 2004 ACS on STN

ED Entered STN: 15 Jul 1998

ACCESSION NUMBER: 1998:431211 CAPLUS

DOCUMENT NUMBER: 129:189556

TITLE: Assembly of Oligosaccharide Libraries with a Designed
Building Block and an Efficient Orthogonal
Protection-Deprotection Strategy

AUTHOR(S): Wong, Chi-Huey; Ye, Xin-Shan; Zhang, Zhiyuan

CORPORATE SOURCE: Department of Chemistry and The Skaggs Institute for
Chemical Biology, Scripps Research Institute, La
Jolla, CA, 92037, USA

SOURCE: Journal of the American Chemical Society (1998),
120(28), 7137-7138

CODEN: JACSAT; ISSN: 0002-7863

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Synthesis of oligosaccharides using building blocks containing four
selectively removable protecting groups as acceptors for glycosidation.
The four protecting groups are chloroacetyl, p-methoxybenzyl, levulinyl,
and tert-butyldiphenylsilyl.

IT 211801-53-5P 211801-55-7P 211801-56-8P
211801-58-0P 211801-64-8P 211801-65-9P
211801-69-3P 211801-72-8P 211801-73-9P
211801-74-0P 211801-75-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP
(Preparation); RACT (Reactant or reagent)

(assembly of oligosaccharide libraries with a designed
building block and an efficient orthogonal
protection-deprotection strategy)

IT 211801-59-1P 211801-62-6P

RL: SPN (Synthetic preparation); PREP (Preparation)
(assembly of oligosaccharide libraries with a designed
building block and an efficient orthogonal
protection-deprotection strategy)

IT 211800-85-0P 211800-88-3P 211800-92-9P
211800-93-0P 211800-94-1P 211800-95-2P
211800-96-3P 211800-97-4P 211800-98-5P
211800-99-6P 211801-00-2P 211801-03-5P
211801-06-8P 211801-07-9P 211801-08-0P
211801-11-5P 211801-12-6P 211801-22-8P
211801-29-5P 211801-31-9P 211801-33-1P
211801-35-3P 211801-38-6P 211801-41-1P
211801-43-3P 211801-44-4P 211801-45-5P
211801-46-6P 211801-47-7P 211802-00-5P

RL: SPN (Synthetic preparation); PREP (Preparation)
(synthesis of oligosaccharides using building
blocks containing four selectively removable protecting groups as
acceptors for glycosidation)

REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

Searcher : Shears 571-272-2528

09/889687

L101 ANSWER 7 OF 9 CAPLUS COPYRIGHT 2004 ACS on STN

ED Entered STN: 05 Jan 1998

ACCESSION NUMBER: 1998:2314 CAPLUS

DOCUMENT NUMBER: 128:61693

TITLE: Synthesis of 1,2,3,4-tetra-O-(4-methoxyphenylmethyl)- α -D-glucopyranoside as a building block

AUTHOR(S): Kitahara, Haruo; Watanabe, Akira; Togawa, Kazuhiro

CORPORATE SOURCE: Dep. Natural Sci., Fac. Education, Hirosaki Univ., Hirosaki, Japan

SOURCE: Science Reports of the Hirosaki University (1997), 44(1), 65-68

CODEN: HUSRAK; ISSN: 0367-6439

PUBLISHER: Hirosaki University, Faculty of Science

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Synthetic routes are described for a new protecting glucopyranoside, 1,2,3,4-tetra-O-(4-methoxyphenylmethyl)- α -D-glucopyranoside. This compound was synthesized via six steps and may be interesting as a building block for the synthesis of oligosaccharides.

IT 69127-37-3P 200346-85-6P 200346-87-8P

200346-88-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP

(Preparation); RACT (Reactant or reagent)

(preparation of

1,2,3,4-tetra-O-(4-methoxyphenylmethyl)-D-glucopyranoside as an oligosaccharide building block)

REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L101 ANSWER 8 OF 9 CAPLUS COPYRIGHT 2004 ACS on STN

ED Entered STN: 04 Oct 1997

ACCESSION NUMBER: 1997:632616 CAPLUS

DOCUMENT NUMBER: 127:262935

TITLE: A simple access to lactose-derived building blocks required in glycoconjugate synthesis

AUTHOR(S): Lay, Luigi; Windmuller, Rainer; Reinhardt, Stefan; Schmidt, Richard R.

CORPORATE SOURCE: Fakultat Chemie, Univ. Konstanz, Konstanz, D-78434, Germany

SOURCE: Carbohydrate Research (1997), 303(1), 39-49

CODEN: CRBRAT; ISSN: 0008-6215

PUBLISHER: Elsevier

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Lactose was readily transformed into hexyldimethylsilyl (3,4-O-isopropylidene- β -D-galactopyranosyl)-(1 \rightarrow 4)- β -D-glucopyranoside; this compound served as intermediate for the generation of partially O-protected lactose building blocks required in oligosaccharide and glycoconjugate synthesis. Thus, via per-O-benzoylation, desilylation, trichloroacetimidate formation, glycosylation of the Lemieux spacer, and acid-catalyzed de-O-isopropylidenation methoxycarbonyloctyl (2,6-di-O-benzoyl- β -D-galactopyranosyl)-(1 \rightarrow 4)-2,3,6-tri-O-benzoyl- β -D-glucopyranoside was obtained. Regioselective benzoylation with benzoyl cyanide under various conditions afforded 3-O-, 2,3,2'-O-, 3,2'-O-, and 2,2'-O-unprotected lactoside, resp. De-O-isopropylidenation of the 3,2'-O-unprotected lactoside gave

Searcher : Shears 571-272-2528

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thexyldimethylsilyl (6-O-benzoyl- β -D-galactopyranosyl)-(1 \rightarrow 4)-
2,6-di-O-benzoyl- β -D-glucopyranoside, an important
2',3',4'-O-unprotected lactose derivative Fucosylation of the
3-O-unprotected
lactoside and then de-O-isopropylidenation afforded thexyldimethylsilyl
(2,6-di-O-benzoyl- β -D-galactopyranosyl)-(1 \rightarrow 4)-[(3,4-di-O-
acetyl-2-O-benzoyl- α -L-fucopyranosyl)-(1 \rightarrow 3)]-2,6-di-O-benzoyl-
 β -D-glucopyranoside, an important fucosyllactose building block.

IT 160720-83-2P 191034-33-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP
(Preparation); RACT (Reactant or reagent)
(preparation of lactose-derived building blocks required
in glycoconjugate synthesis)

IT 160720-73-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of lactose-derived building blocks required
in glycoconjugate synthesis)

REFERENCE COUNT: 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L101 ANSWER 9 OF 9 CAPLUS COPYRIGHT 2004 ACS on STN

ED Entered STN: 22 Feb 1997

ACCESSION NUMBER: 1997:123442 CAPLUS

DOCUMENT NUMBER: 126:238580

TITLE: Glycosyl azides as building blocks in convergent
syntheses of oligomeric lactosamine and Lewis
x saccharides

AUTHOR(S): Broeder, Wolfgang; Kunz, Horst

CORPORATE SOURCE: Institut fur Organische Chemie, Johannes
Gutenberg-Universitat Mainz, Mainz, D-55128, Germany

SOURCE: Bioorganic & Medicinal Chemistry (1997), 5(1), 1-19
CODEN: BMECEP; ISSN: 0968-0896

PUBLISHER: Elsevier

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Oligosaccharides containing type 2 lactosamine repeating units, e.g.
neo-lacto-octaose and trimeric Lewis x derivs., are constructed using
neo-lactosamine azide building blocks. The azido group provides a
favorable protection of the anomeric position which is stable to versatile
protecting group manipulations and glycosylation reactions. On the other
hand, glycosyl azides can be converted into glycosyl fluorides via a
1,3-dipolar cycloaddn. with di-tert-butyl-acetylenedicarboxylate and
subsequent treatment of the resulting N-glycosyl triazoles with hydrogen
fluoride-pyridine complex. Activation of the lactosamine fluorides with
Lewis acids affords the possibility to extend the oligosaccharide chain
with disaccharide units. Suitable protecting group combinations within
the galactose and the glucosamine portion of the lactosamine unit enable
selective deprotection reactions and, subsequently, chain extension or
branching, e.g. to yield Lewis x structures.

IT 188398-91-6P 188399-12-4P 188399-13-5P

188399-14-6P 188399-15-7P 188399-18-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP
(Preparation); RACT (Reactant or reagent)

(glycosyl azides as building blocks in convergent
syntheses of oligomeric lactosamine and Lewis x
oligosaccharides)

09/889687

IT 188398-92-7P

RL: SPN (Synthetic preparation); PREP (Preparation)
(glycosyl azides as building blocks in convergent
syntheses of oligomeric lactosamine and Lewis x
oligosaccharides)

REFERENCE COUNT: 42 THERE ARE 42 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

FILE 'REGISTRY' ENTERED AT 12:00:49 ON 08 NOV 2004

L102 91 SEA FILE=REGISTRY ABB=ON PLU=ON (151072-06-9/BI OR 152389-14-
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282526-23-2/BI OR 309913-14-2/BI OR 309913-15-3/BI OR 309913-16
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309913-20-0/BI OR 309913-21-1/BI OR 309913-22-2/BI OR 330457-52
-8/BI OR 330457-55-1/BI OR 342640-48-6/BI OR 342640-49-7/BI OR
342640-50-0/BI OR 342640-51-1/BI OR 478062-63-4/BI OR 478062-65
-6/BI OR 478062-66-7/BI OR 478062-67-8/BI OR 478062-68-9/BI OR
5346-81-6/BI OR 69127-37-3/BI)

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Strs. displayed
↓

=> d 1,6,10,12,21,24,26,28,30,31-33,65,75,78,79,84,86,88-91 ide can

L102 ANSWER 1 OF 91 REGISTRY COPYRIGHT 2004 ACS on STN

RN 478062-68-9 REGISTRY

CN Glycinamide, N-[(9H-fluoren-9-ylmethoxy)carbonyl]-O-(2,3,4,6-tetra-O-
acetyl-β-D-galactopyranosyl)-L-seryl-2-[[[(2S)-2-[[[(9H-fluoren-9-
ylmethoxy)carbonyl]amino]-1-oxo-3-[(2,3,4,6-tetra-O-acetyl-β-D-
glucopyranosyl)oxy]propyl]amino]methyl]-2-[[[(2S)-2-[[[(9H-fluoren-9-
ylmethoxy)carbonyl]amino]-1-oxo-3-[(2,3,4-tri-O-acetyl-β-D-
ribosepyranosyl)oxy]propyl]amino]methyl]-β-alanyl- (9CI) (CA INDEX
NAME)

FS STEREOSEARCH

MF C100 H112 N8 O39

SR CA

LC STN Files: CA, CAPLUS, CASREACT

DT.CA Caplus document type: Journal

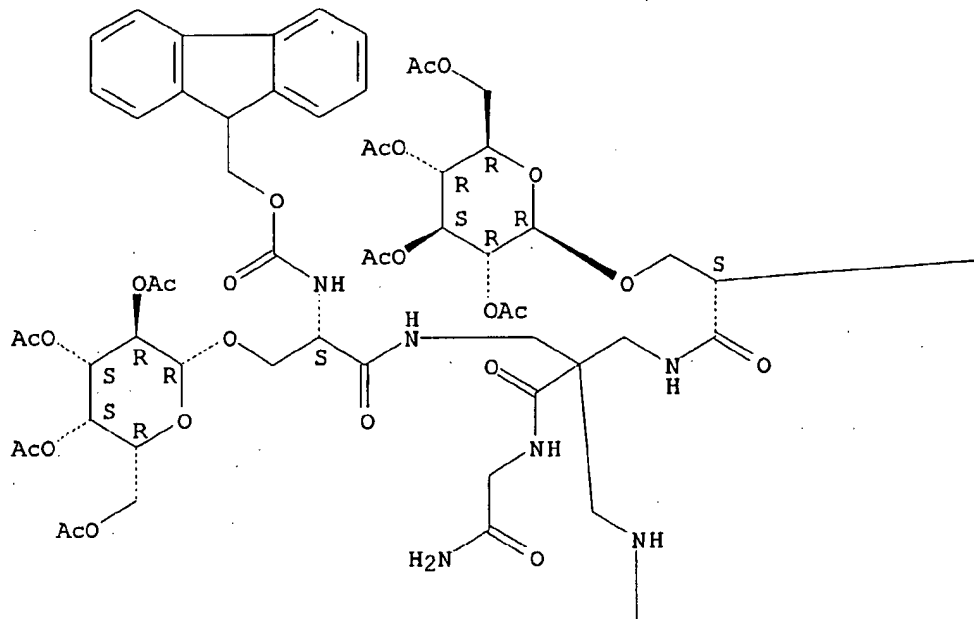
RL.NP Roles from non-patents: PREP (Preparation)

Absolute stereochemistry.

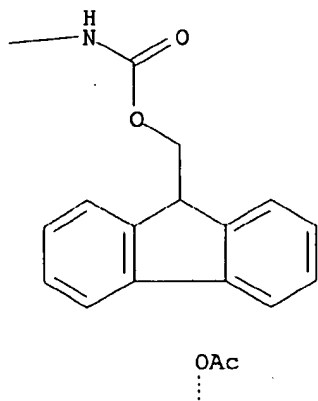
Searcher : Shears 571-272-2528

09/889687

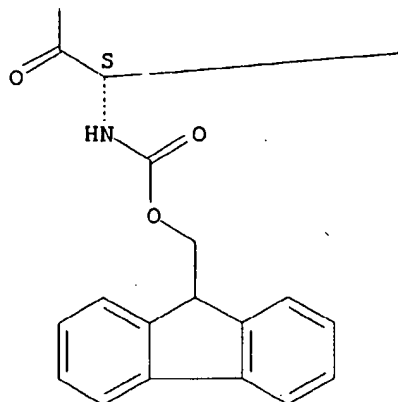
PAGE 1-A



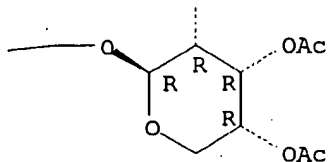
PAGE 1-B



PAGE 2-A



PAGE 2-B



1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 138:24924

L102 ANSWER 6 OF 91 REGISTRY COPYRIGHT 2004 ACS on STN

RN 342640-51-1 REGISTRY

CN α -D-Galactopyranoside, methyl 3-O-[3,4,6-tri-O-acetyl-2-deoxy-2-
 [[[tetrahydro-1,3-dimethyl-2,4,6-trioxo-5(2H)-
 pyrimidinylidene)methyl]amino]- β -D-glucopyranosyl]-, 2,6-dibenzoate
 (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C40 H45 N3 O18

SR CA

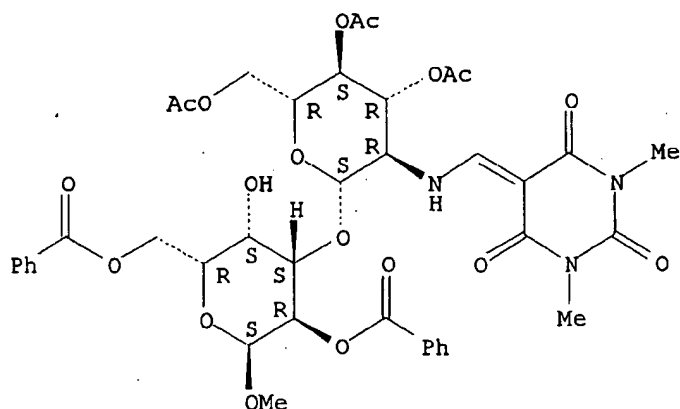
LC STN Files: CA, CAPLUS, CASREACT

DT.CA Caplus document type: Journal

RL.NP Roles from non-patents: PREP (Preparation)

Absolute stereochemistry.

09/889687



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 135:19843

L102 ANSWER 10 OF 91 REGISTRY COPYRIGHT 2004 ACS on STN

RN 330457-55-1 REGISTRY

CN α -D-Mannopyranoside, 4-pentenyl O-2-O-(2,2-dimethyl-1-oxopropyl)-
3,4,6-tris-O-(phenylmethyl)- β -D-galactopyranosyl-(1 \rightarrow 4)-O-2-
deoxy-2-(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)-3,6-bis-O-(phenylmethyl)-
 β -D-glucopyranosyl-(1 \rightarrow 2)-3,4,6-tris-O-(phenylmethyl)- (9CI)
(CA INDEX NAME)

FS STEREOSEARCH

MF C92 H99 N O18

SR CA

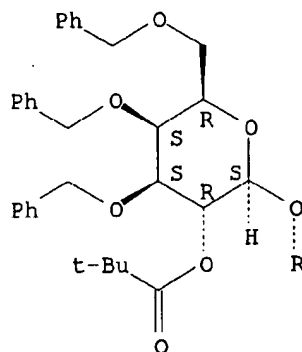
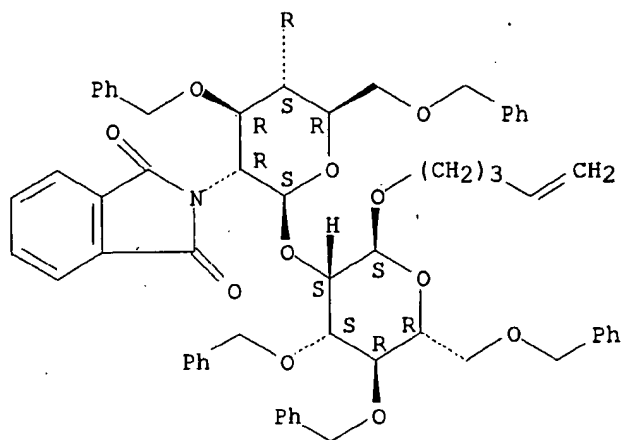
LC STN Files: CA, CAPLUS, CASREACT, USPATFULL

DT.CA Caplus document type: Journal; Patent

RL.P Roles from patents: PREP (Preparation)

RL.NP Roles from non-patents: PREP (Preparation); RACT (Reactant or reagent)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:271086

REFERENCE 2: 136:184053

REFERENCE 3: 134:237716

L102 ANSWER 12 OF 91 REGISTRY COPYRIGHT 2004 ACS on STN

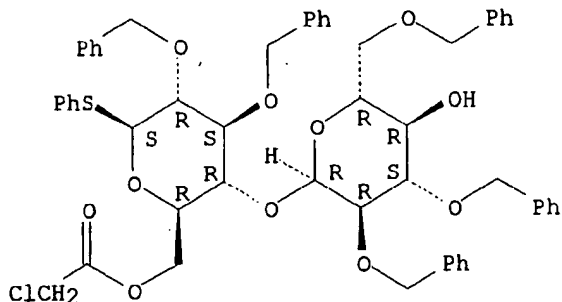
RN 309913-22-2 REGISTRY

CN β -D-Glucopyranoside, phenyl 2,3-bis-O-(phenylmethyl)-1-thio-4-O-[2,3,6-tris-O-(phenylmethyl)- α -D-glucopyranosyl]-, 6-(chloroacetate) (9CI) (CA INDEX NAME)

09/889687

FS STEREOSEARCH
MF C55 H57 Cl O11 S
SR CA
LC STN Files: CA, CAPLUS, CASREACT
DT.CA Caplus document type: Journal
RL.NP Roles from non-patents: PREP (Preparation)

Absolute stereochemistry. Rotation (+).



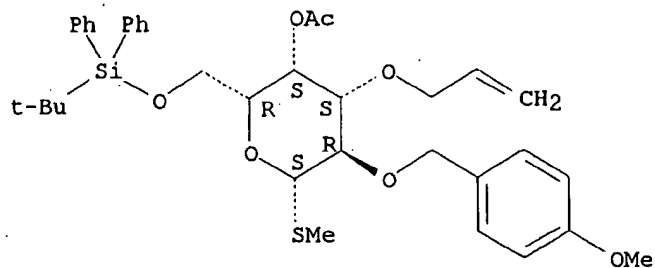
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 134:17644

L102 ANSWER 21 OF 91 REGISTRY COPYRIGHT 2004 ACS on STN
RN 282526-23-2 REGISTRY
CN β -D-Galactopyranoside, methyl 6-O-[(1,1-dimethylethyl)diphenylsilyl]-
2-O-[(4-methoxyphenyl)methyl]-3-O-2-propenyl-1-thio-, acetate (9CI) (CA
INDEX NAME)
FS STEREOSEARCH
MF C36 H46 O7 S Si
SR CA
LC STN Files: CA, CAPLUS
DT.CA Caplus document type: Patent
RL.P Roles from patents: PREP (Preparation)

Absolute stereochemistry.



Searcher : Shears 571-272-2528

09/889687

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 133:105256

L102 ANSWER 24 OF 91 REGISTRY COPYRIGHT 2004 ACS on STN

RN 259742-11-5 REGISTRY

CN β -D-Glucopyranoside, phenyl 4-O-[2,3-bis-O-(phenylmethyl)-4,6-O-[(R)-phenylmethylene]- α -D-glucopyranosyl]-6-O-[(1,1-dimethylethyl)diphenylsilyl]-2,3-bis-O-(phenylmethyl)-1-thio- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C69 H72 O10 S Si

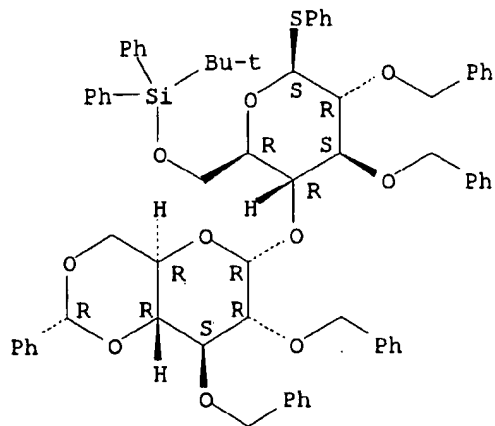
SR CA

LC STN Files: CA, CAPLUS, CASREACT

DT.CA CAPLUS document type: Journal

RL.NP Roles from non-patents: PREP (Preparation); RACT (Reactant or reagent)

Absolute stereochemistry. Rotation (+).



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 138:73438

REFERENCE 2: 134:17644

REFERENCE 3: 132:194574

L102 ANSWER 26 OF 91 REGISTRY COPYRIGHT 2004 ACS on STN

RN 253683-36-2 REGISTRY

Searcher : Shears 571-272-2528

09/889687

CN α -D-Mannopyranoside, 4-pentenyl O-2-O-acetyl-3,4,6-tris-O-(phenylmethyl)- α -D-mannopyranosyl-(1 \rightarrow 2)-O-3,4,6-tris-O-(phenylmethyl)- α -D-mannopyranosyl-(1 \rightarrow 2)-O-3,4,6-tris-O-(phenylmethyl)- α -D-mannopyranosyl-(1 \rightarrow 2)-O-3,4,6-tris-O-(phenylmethyl)- α -D-mannopyranosyl-(1 \rightarrow 2)-O-3,4,6-tris-O-(phenylmethyl)- α -D-mannopyranosyl-(1 \rightarrow 2)-3,4,6-tris-O-(phenylmethyl)- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C196 H208 037

SR CA

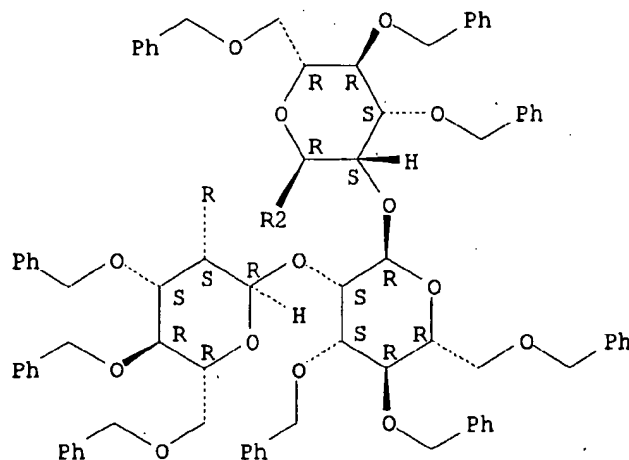
LC STN Files: CA, CAPLUS, CASREACT

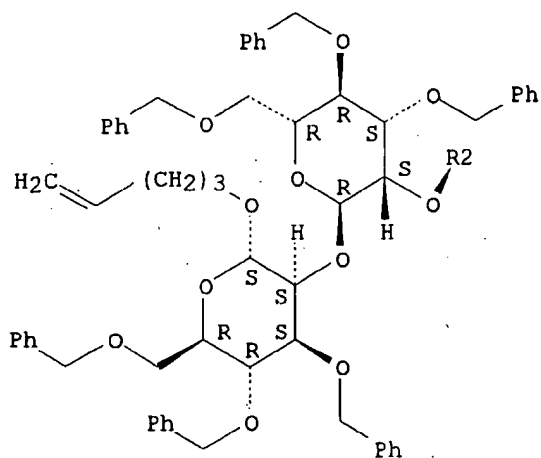
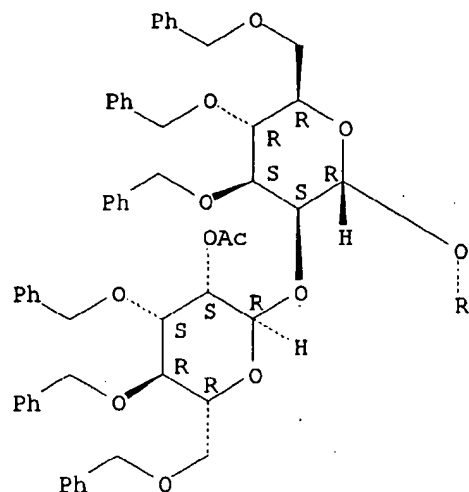
DT.CA CPlus document type: Journal

RL.NP Roles from non-patents: PREP (Preparation)

Absolute stereochemistry.

PAGE 1-A





3 REFERENCES IN FILE CA (1907 TO DATE)
 3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:271086

REFERENCE 2: 134:237716

REFERENCE 3: 132:93556

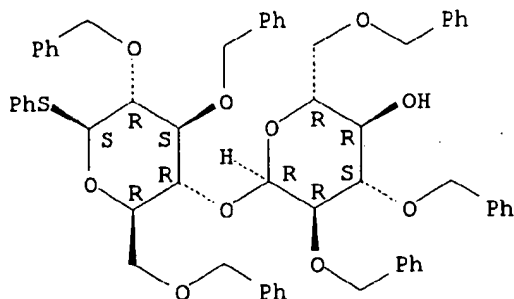
L102 ANSWER 28 OF 91 REGISTRY COPYRIGHT 2004 ACS on STN
 RN 250335-04-7 REGISTRY

Searcher : Shears 571-272-2528

09/889687

CN β -D-Glucopyranoside, phenyl 2,3,6-tris-O-(phenylmethyl)-1-thio-4-O-
[2,3,6-tris-O-(phenylmethyl)- α -D-glucopyranosyl]- (9CI) (CA INDEX
NAME)
FS STEREOSEARCH
MF C60 H62 O10 S
SR CA
LC STN Files: CA, CAPLUS, CASREACT
DT.CA Caplus document type: Journal
RL.NP Roles from non-patents: PREP (Preparation); RACT (Reactant or reagent)

Absolute stereochemistry. Rotation (+).



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 134:17644

REFERENCE 2: 132:35963

L102 ANSWER 30 OF 91 REGISTRY COPYRIGHT 2004 ACS on STN

RN 244286-77-9 REGISTRY

CN β -D-Glucopyranoside, phenyl 4-O-[2,3-bis-O-(phenylmethyl)-4,6-O-((R)-
phenylmethylene)- α -D-glucopyranosyl]-2,3,6-tris-O-(phenylmethyl)-1-
thio- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C60 H60 O10 S

SR CA

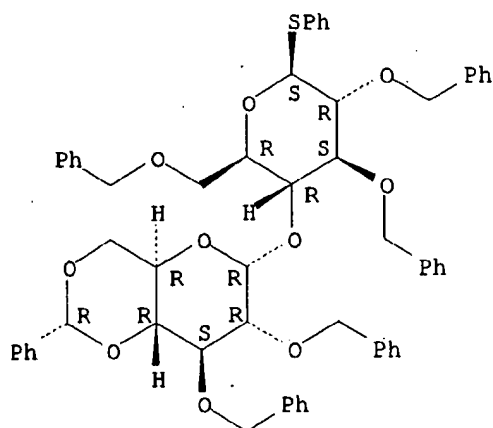
LC STN Files: CA, CAPLUS, CASREACT

DT.CA Caplus document type: Journal

RL.NP Roles from non-patents: PREP (Preparation); RACT (Reactant or reagent)

Absolute stereochemistry. Rotation (+).

09/889687



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 134:17644

REFERENCE 2: 131:243478

L102 ANSWER 31 OF 91 REGISTRY COPYRIGHT 2004 ACS on STN

RN 243469-45-6 REGISTRY

CN L-Serine, N-[(9H-fluoren-9-ylmethoxy)carbonyl]-O-(2,3,4,6-tetra-O-acetyl-
β-D-galactopyranosyl)-, pentafluorophenyl ester (9CI) (CA INDEX
NAME)

FS STEREOSEARCH

MF C38 H34 F5 N O14

SR CA

LC STN Files: CA, CAPLUS, CASREACT

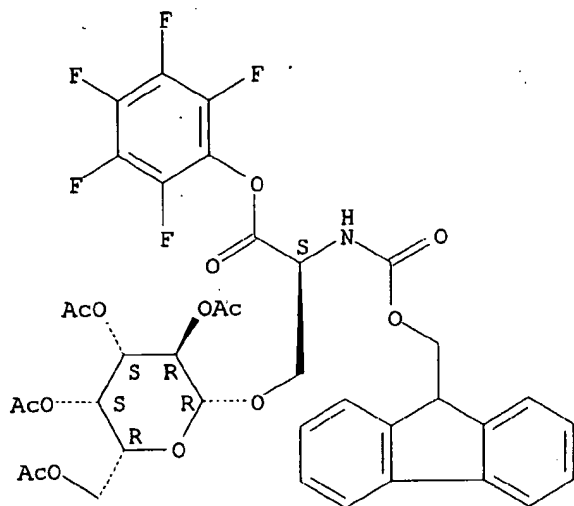
DT.CA CAplus document type: Journal

RL.NP Roles from non-patents: PREP (Preparation); RACT (Reactant or reagent)

Absolute stereochemistry.

Searcher : Shears 571-272-2528

09/889687



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 138:24924

REFERENCE 2: 133:223015

REFERENCE 3: 131:214543

L102 ANSWER 32 OF 91 REGISTRY COPYRIGHT 2004 ACS on STN

RN 211802-00-5 REGISTRY

CN Hexanoic acid, 6-[[O- α -D-galactopyranosyl-(1 \rightarrow 3)-O-[β -L-galactopyranosyl-(1 \rightarrow 2)]]-6-O-[(1,1-dimethylethyl)diphenylsilyl]-4-O-(1,4-dioxopentyl)- β -D-galactopyranosyl]oxy]-, methyl ester (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C46 H68 O20 Si

SR CA

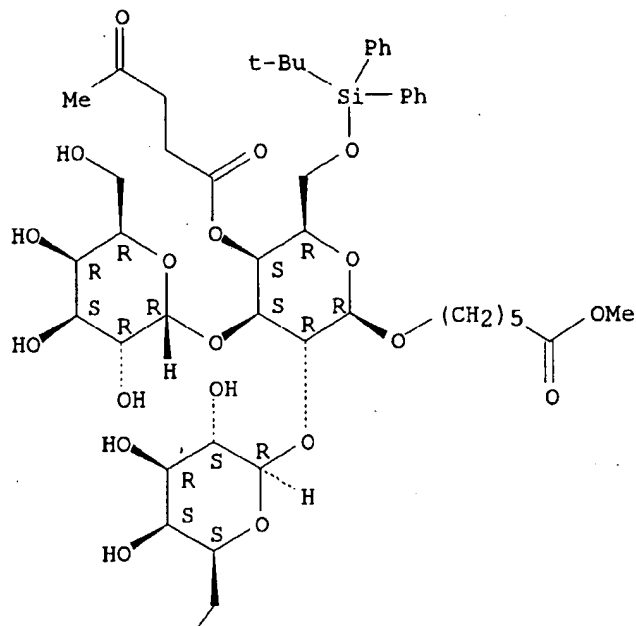
LC STN Files: CA, CAPLUS

DT.CA CAplus document type: Journal

RL.NP Roles from non-patents: PREP (Preparation)

Absolute stereochemistry.

Searcher : Shears 571-272-2528



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PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 129:189556

L102 ANSWER 33 OF 91 REGISTRY COPYRIGHT 2004 ACS on STN

RN 211801-75-1 REGISTRY

CN β -D-Galactopyranoside, 4-methylphenyl 4,6-bis-O-[(1,1-dimethylethyl)diphenylsilyl]-3-O-[(4-methoxyphenyl)methyl]-1-thio-, chloroacetate (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C55 H63 Cl O7 S Si2

SR CA

LC STN Files: CA, CAPLUS

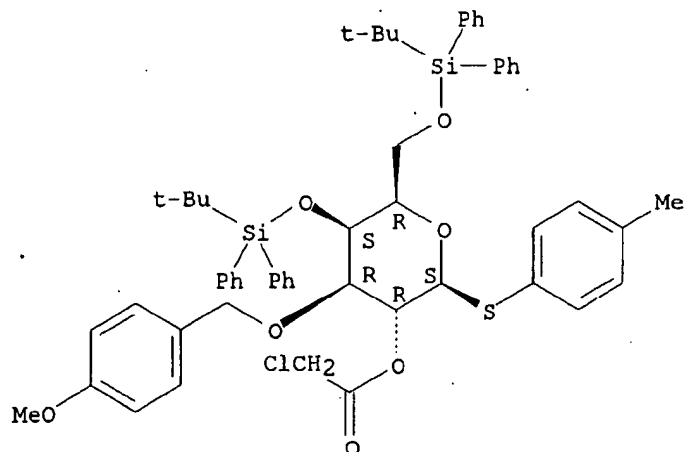
DT.CA Caplus document type: Journal

RL.NP Roles from non-patents: PREP (Preparation); RACT (Reactant or reagent)

Absolute stereochemistry.

Searcher : Shears 571-272-2528

09/889687



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

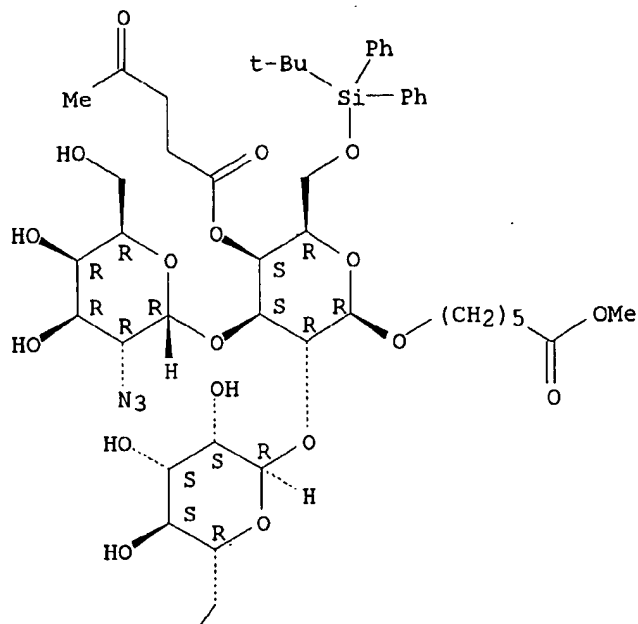
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 129:189556

L102 ANSWER 65 OF 91 REGISTRY COPYRIGHT 2004 ACS on STN
RN 211800-99-6 REGISTRY
CN Hexanoic acid, 6-[[O-2-azido-2-deoxy- α -D-galactopyranosyl-(1 \rightarrow 3)-O-[α -D-mannopyranosyl-(1 \rightarrow 2)]]-6-O-[(1,1-dimethylethyl)diphenylsilyl]-4-O-(1,4-dioxopentyl)- β -D-galactopyranosyl]oxy]-, methyl ester (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C46 H67 N3 O19 Si
SR CA
LC STN Files: CA, CAPLUS
DT.CA CAPLUS document type: Journal
RL.NP Roles from non-patents: PREP (Preparation)

Absolute stereochemistry.

Searcher : Shears 571-272-2528



HO

1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 129:189556

L102 ANSWER 75 OF 91 REGISTRY COPYRIGHT 2004 ACS on STN

RN 200346-88-9 REGISTRY

CN D-Glucopyranoside, (4-methoxyphenyl)methyl 2,3,4-tris-O-[(4-methoxyphenyl)methyl]-6-O-(triphenylmethyl)- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C57 H58 O10

SR CA

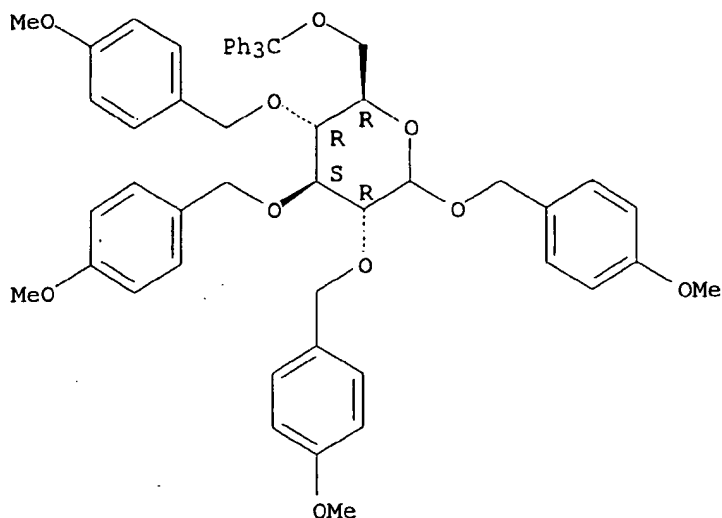
LC STN Files: CA, CAPLUS, CASREACT

DT.CA Caplus document type: Journal

RL.NP Roles from non-patents: PREP (Preparation); RACT (Reactant or reagent)

Absolute stereochemistry.

09/889687



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 131:166989

REFERENCE 2: 128:61693

L102 ANSWER 78 OF 91 REGISTRY COPYRIGHT 2004 ACS on STN

RN 191034-33-0 REGISTRY

CN Nonanoic acid, 9-[[2,3,6-tri-O-benzoyl-4-O-[2,6-di-O-benzoyl-3,4-O-(1-methylethylidene)-β-D-galactopyranosyl]-β-D-glucopyranosyl]oxy]-, methyl ester (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C60 H64 O18

SR CA

LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL

DT.CA Caplus document type: Journal; Patent

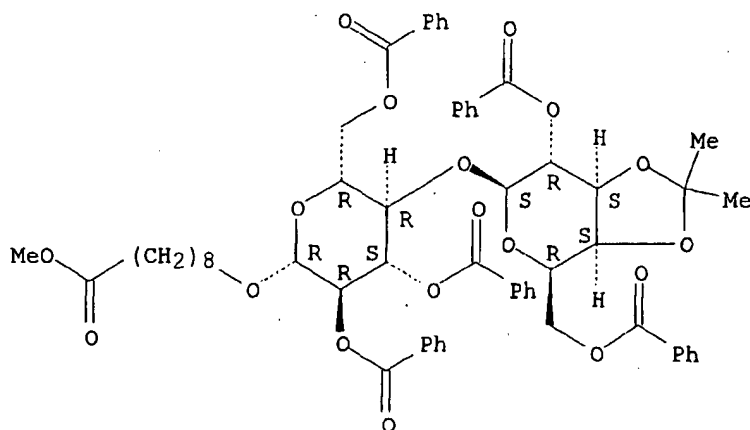
RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)

RL.NP Roles from non-patents: PREP (Preparation); RACT (Reactant or reagent)

Absolute stereochemistry. Rotation (+).

Searcher : Shears 571-272-2528

09/889687



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

5 REFERENCES IN FILE CA (1907 TO DATE)

5 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 137:311100

REFERENCE 2: 137:6354

REFERENCE 3: 130:168603

REFERENCE 4: 127:262935

REFERENCE 5: 127:50946

L102 ANSWER 79 OF 91 REGISTRY COPYRIGHT 2004 ACS on STN

RN 188399-18-0 REGISTRY

CN β -D-Glucopyranoside, phenylmethyl O-2,3,4,6-tetra-O-acetyl- β -D-galactopyranosyl-(1 \rightarrow 4)-O-2-deoxy-2-(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)-6-O-(phenylmethyl)- β -D-glucopyranosyl-(1 \rightarrow 3)-O-2,4,6-tris-O-(phenylmethyl)- β -D-galactopyranosyl-(1 \rightarrow 4)-O-2-deoxy-2-(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)-6-O-(phenylmethyl)- β -D-glucopyranosyl-(1 \rightarrow 3)-O-2,4,6-tris-O-(phenylmethyl)- β -D-galactopyranosyl-(1 \rightarrow 4)-O-2-deoxy-2-(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)-6-O-(phenylmethyl)- β -D-glucopyranosyl-(1 \rightarrow 3)-O-2,4,6-tris-O-(phenylmethyl)- β -D-galactopyranosyl-(1 \rightarrow 4)-2,3,6-tris-O-(phenylmethyl)- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C192 H195 N3 O48

SR CA

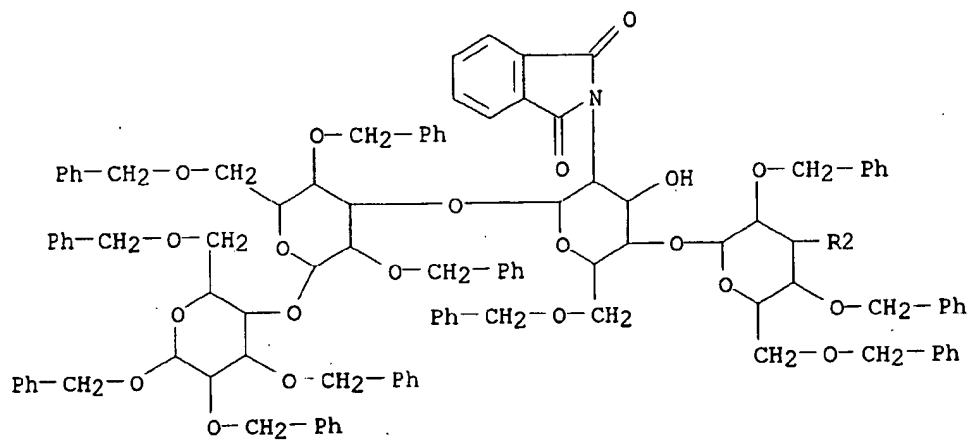
LC STN Files: CA, CAPLUS

DT.CA Caplus document type: Journal

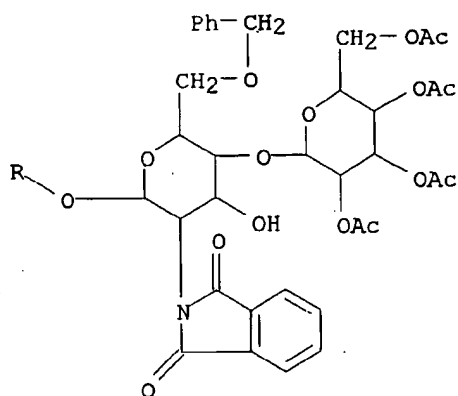
RL.NP Roles from non-patents: PREP (Preparation); RACT (Reactant or reagent)

Searcher : Shears 571-272-2528

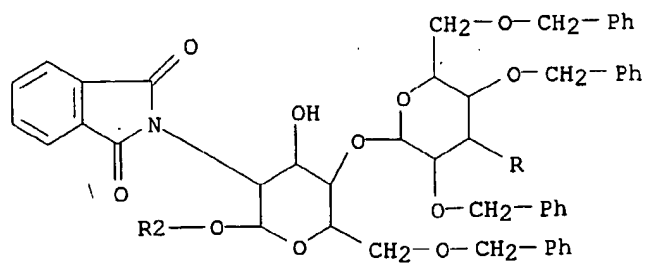
PAGE 1-A



PAGE 2-A



PAGE 3-A



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1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 126:238580

L102 ANSWER 84 OF 91 REGISTRY COPYRIGHT 2004 ACS on STN

RN 188398-92-7 REGISTRY

CN β -D-Glucopyranoside, phenylmethyl O-6-deoxy-2,3,4-tris-O-(phenylmethyl)- α -L-galactopyranosyl-(1 \rightarrow 2)-O-3,4,6-tris-O-(phenylmethyl)- β -D-galactopyranosyl-(1 \rightarrow 4)-O-2-deoxy-2-(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)-3,6-bis-O-(phenylmethyl)- β -D-glucopyranosyl-(1 \rightarrow 3)-O-2,4,6-tris-O-(phenylmethyl)- β -D-galactopyranosyl-(1 \rightarrow 4)-2,3,6-tris-O-(phenylmethyl)- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C143 H145 N 026

SR CA

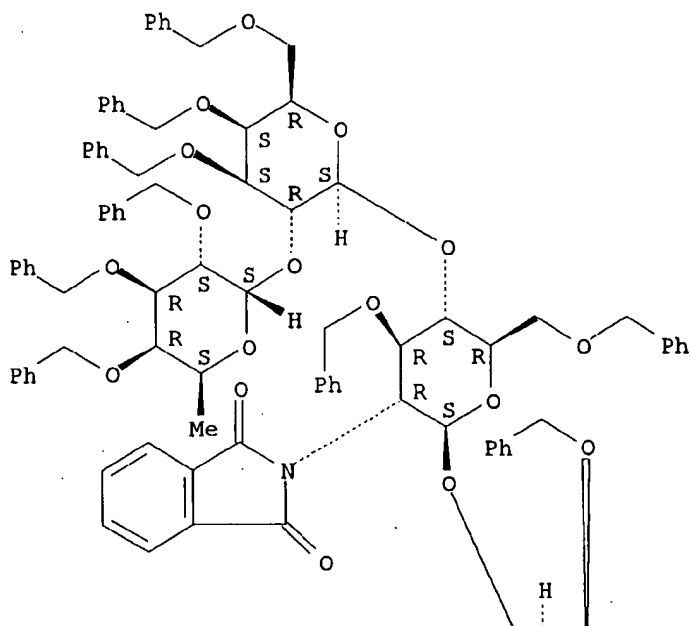
LC STN Files: CA, CAPLUS

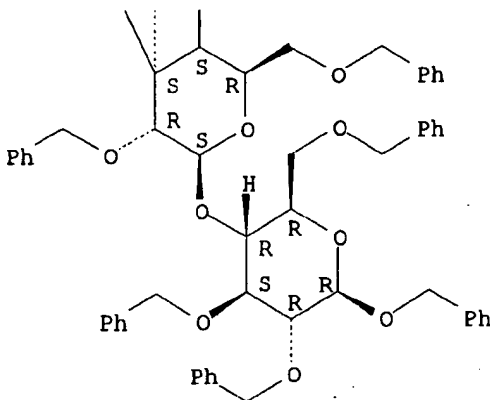
DT.CA Caplus document type: Journal

RL.NP Roles from non-patents: PREP (Preparation)

Absolute stereochemistry. Rotation (-).

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1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 126:238580

L102 ANSWER 86 OF 91 REGISTRY COPYRIGHT 2004 ACS on STN

RN 160720-83-2 REGISTRY

CN D-Glucopyranose, 4-O-[2,6-di-O-benzoyl-3,4-O-(1-methylethylidene)-β-D-galactopyranosyl]-, 2,3,6-tribenzoate 1-(2,2,2-trichloroethanimidate) (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C52 H46 Cl3 N O16

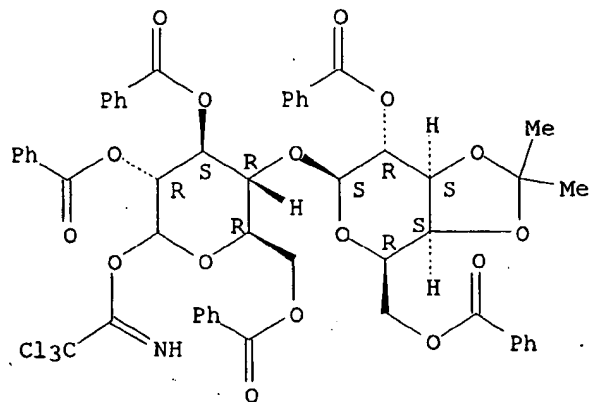
SR CA

LC STN Files: CA, CAPLUS, CASREACT

DT.CA Caplus document type: Journal

RL.NP Roles from non-patents: PREP (Preparation); RACT (Reactant or reagent)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

Searcher : Shears 571-272-2528

09/889687

3 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 132:50181

REFERENCE 2: 127:262935

REFERENCE 3: 122:106326

L102 ANSWER 88 OF 91 REGISTRY COPYRIGHT 2004 ACS on STN

RN 152389-14-5 REGISTRY

CN L-Serine, N-[(9H-fluoren-9-ylmethoxy)carbonyl]-O-(2,3,4,6-tetra-O-acetyl- α -D-mannopyranosyl)-, pentafluorophenyl ester (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C38 H34 F5 N O14

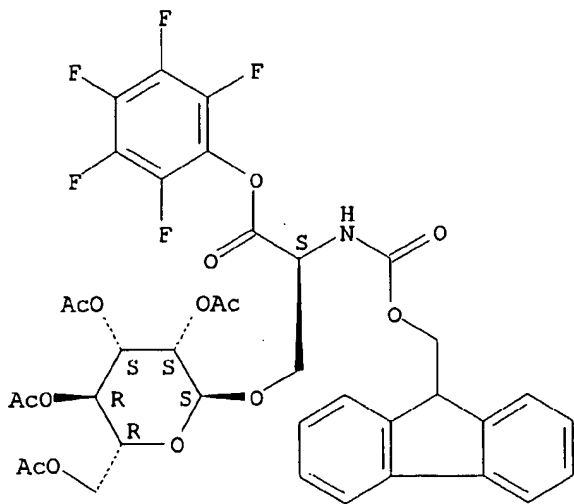
SR CA

LC STN Files: CA, CAPLUS, CASREACT

DT.CA Caplus document type: Journal

RL.NP Roles from non-patents: PREP (Preparation); RACT (Reactant or reagent)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 138:24924

REFERENCE 2: 134:296073

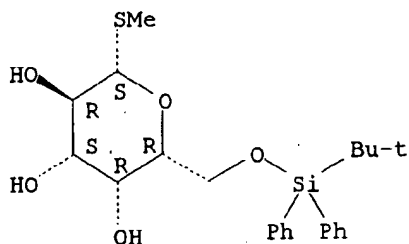
REFERENCE 3: 120:77621

Searcher : Shears 571-272-2528

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L102 ANSWER 89 OF 91 REGISTRY COPYRIGHT 2004 ACS on STN
RN 151072-06-9 REGISTRY
CN β -D-Galactopyranoside, methyl 6-O-[(1,1-dimethylethyl)diphenylsilyl]-
1-thio- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C23 H32 O5 S Si
SR CA
LC STN Files: CA, CAPLUS, CASREACT
DT.CA CAplus document type: Journal; Patent
RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)
RL.NP Roles from non-patents: PREP (Preparation); RACT (Reactant or reagent)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

4 REFERENCES IN FILE CA (1907 TO DATE)
4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 135:33628
REFERENCE 2: 133:105256
REFERENCE 3: 131:228893
REFERENCE 4: 119:250313

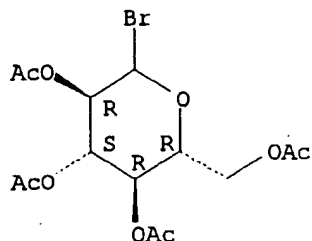
L102 ANSWER 90 OF 91 REGISTRY COPYRIGHT 2004 ACS on STN
RN 69127-37-3 REGISTRY
CN D-Glucopyranosyl bromide, tetraacetate (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 2,3,4,6-Tetra-O-acetyl-D-glucopyranosyl bromide
CN D-Glucosyl bromide, tetraacetate
CN Glucopyranosyl bromide, tetraacetate
FS STEREOSEARCH
DR 102339-89-9, 80513-25-3
MF C14 H19 Br O9
LC STN Files: BEILSTEIN*, BIOBUSINESS, CA, CAOLD, CAPLUS, CASREACT,
TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)
DT.CA CAplus document type: Journal; Patent
RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)
RL.NP Roles from non-patents: BIOL (Biological study); PREP (Preparation);

Searcher : Shears 571-272-2528

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PROC (Process); RACT (Reactant or reagent); NORL (No role in record)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

91 REFERENCES IN FILE CA (1907 TO DATE)
91 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 141:38808
REFERENCE 2: 140:219548
REFERENCE 3: 140:27827
REFERENCE 4: 139:381519
REFERENCE 5: 139:365141
REFERENCE 6: 138:122769
REFERENCE 7: 137:6325
REFERENCE 8: 136:263350
REFERENCE 9: 135:371903
REFERENCE 10: 135:362368

L102 ANSWER 91 OF 91 REGISTRY COPYRIGHT 2004 ACS on STN

RN 5346-81-6 REGISTRY

CN β -D-Glucopyranoside, phenyl 4-O-(2,3,4,6-tetra-O-acetyl- α -D-glucopyranosyl)-1-thio-, triacetate (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Glucopyranoside, phenyl 4-O- α -D-glucopyranosyl-1-thio-, heptaacetate, β -D- (8CI)

OTHER NAMES:

CN NSC 232027

FS STEREOSEARCH

MF C32 H40 O17 S

LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, USPATFULL
(*File contains numerically searchable property data)

DT.CA Caplus document type: Journal; Patent

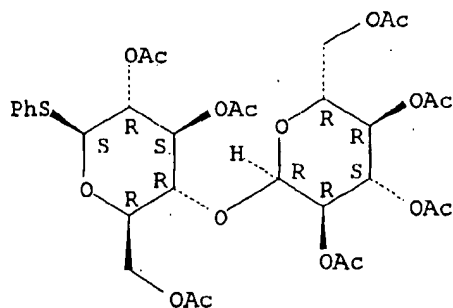
RL.P Roles from patents: RACT (Reactant or reagent)

Searcher : Shears 571-272-2528

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RL.NP Roles from non-patents: PREP (Preparation); RACT (Reactant or reagent)

Absolute stereochemistry. Rotation (+).



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

12 REFERENCES IN FILE CA (1907 TO DATE)
12 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:391419

REFERENCE 2: 138:287940

REFERENCE 3: 138:73438

REFERENCE 4: 134:17644

REFERENCE 5: 132:194574

REFERENCE 6: 125:276325

REFERENCE 7: 125:9849

REFERENCE 8: 115:256489

REFERENCE 9: 109:55099

REFERENCE 10: 101:146746

FILE 'CAOLD' ENTERED AT 12:02:54 ON 08 NOV 2004
L103 8 S L102

L103 ANSWER 1 OF 8 CAOLD COPYRIGHT 2004 ACS on STN

AN CA55:20967c CAOLD

TI S-oxides of sugar thioacetals and a new glucoside synthesis

AU Kuhn, Richard; Baschang-Bister, W.

IT 962-53-8 3055-46-7 5517-54-4 38178-46-0 51023-63-3 89886-06-6
89886-08-8 93302-26-2 100016-91-9 102339-89-9 109428-47-9
112484-74-9 112716-08-2 113091-51-3 113114-28-6 113114-78-6 114889-92-8
115799-07-0 115799-08-1 115799-09-2

L103 ANSWER 2 OF 8 CAOLD COPYRIGHT 2004 ACS on STN

Searcher : Shears 571-272-2528

09/889687

AN CA54:12003c CAOLD
TI preparation of monomeric fructose nitrates
AU Sarel-Imber, Meira; Leibowitz, J.
IT 102339-89-9 108489-40-3 114510-21-3 115799-10-5 117608-65-8
120746-71-6

L103 ANSWER 3 OF 8 CAOLD COPYRIGHT 2004 ACS on STN
AN CA54:1328f CAOLD
TI action of dimethyl sulfoxide in O-acetylglycosyl bromides
AU Srivastava, Harris C.
IT 3068-31-3 13007-37-9 55018-54-7 102339-89-9

L103 ANSWER 4 OF 8 CAOLD COPYRIGHT 2004 ACS on STN
AN CA53:21677g CAOLD
TI synthesis of 3-O- α -D-glucopyranosyl-D-glucose sakeboise or nigeroseu
- (I) reaction of 1,2,5,6-di-O-isopropylidene-D-glucofuranose and
2,3,4,6-tetra-O-acetyl- α -D-glucopyranosyl bromide
AU Matsuda, Kazuo; Sekiguchi, T.
IT 102339-89-9

L103 ANSWER 5 OF 8 CAOLD COPYRIGHT 2004 ACS on STN
AN CA53:6092e CAOLD
TI preparation of acetobromo sugars
AU Weygand, Friedrich; Ziemann, H.; Bestmann, H. J.
IT 5160-12-3 7505-49-9 102129-62-4 102339-89-9 109910-18-1

L103 ANSWER 6 OF 8 CAOLD COPYRIGHT 2004 ACS on STN
AN CA53:1162f CAOLD
TI glucosylation of acetylenes
AU Zelinski, Robert; Meyer, R. E.
IT 6736-97-6 6738-06-3 79744-06-2 102339-89-9 108844-74-2
109010-44-8 114421-40-8 116257-27-3 122703-50-8

L103 ANSWER 7 OF 8 CAOLD COPYRIGHT 2004 ACS on STN
AN CA52:1072e CAOLD
TI reaction of 2,3,4,6-tetraacetyl- α -D-glucopyranosyl bromide with
mercaptans
AU Stanek, Jaroslav; Malkovsky, K.; Novak, M.; Petricek, D.
IT 6605-39-6 6612-63-1 6697-87-6 10343-13-2 30657-67-1 64495-83-6
66108-02-9 70518-88-6 70569-27-6 84534-34-9 93711-40-1
102339-89-9 119250-07-6

L103 ANSWER 8 OF 8 CAOLD COPYRIGHT 2004 ACS on STN
AN CA51:227h CAOLD
TI reactivity of the O-acylglycosyl halides - (IV) solvolytic reactions of
O-acetyl- α -D-glycosyl-1-halides in the presence of electrophilic
catalysts
AU Mattok, G. L.; Phillips, G. O.
IT 572-10-1 102339-89-9

FILE 'USPATFULL' ENTERED AT 12:03:15 ON 08 NOV 2004
L104 17 S L102

L104 ANSWER 1 OF 17 USPATFULL on STN
ACCESSION NUMBER: 2004:32059 USPATFULL
TITLE: Programmable one-pot oligosaccharide synthesis

Searcher : Shears 571-272-2528

09/889687

INVENTOR(S): Wong, Chi-Huey, Rancho Santa Fe, CA, UNITED STATES
Zhang, Zhiyuan, San Diego, CA, UNITED STATES
Ollman, Ian, Foster City, CA, UNITED STATES
Baasov, Timor, Haifa, IL, UNITED STATES
Ye, Xin-Shan, Beijing, CHINA
PATENT ASSIGNEE(S): The Scripps Research Institute, La Jolla, CA, UNITED STATES (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004024201	A1	20040205
APPLICATION INFO.:	US 2003-400090	A1	20030325 (10)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 2001-762377, filed on 10 Jul 2001, GRANTED, Pat. No. US 6538117 A 371 of International Ser. No. WO 1999-US18151, filed on 10 Aug 1999, PENDING		

	NUMBER	DATE
PRIORITY INFORMATION:	US 1998-96001P	19980810 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	THE SCRIPPS RESEARCH INSTITUTE, OFFICE OF PATENT COUNSEL, TPC-8, 10550 NORTH TORREY PINES ROAD, LA JOLLA, CA, 92037	
NUMBER OF CLAIMS:	3	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	32 Drawing Page(s)	
LINE COUNT:	2477	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The reactivity of a number of p-methylphenyl thioglycoside (STol) donors which are either fully protected or have one hydroxyl group exposed has been quantitatively determined by HPLC in conjunction with the development of a broadly applicable approach for a facile one-pot synthesis of oligosaccharides. The influence on reactivity of the structural effects of different monosaccharide cores and different protecting groups on each glycoside donor is characterized and quantified. In addition, a correlation between glycosyl donor reactivity and the chemical shift of the anomeric proton by ¹H NMR has been established. A database of thioglycosides as glycosyl donors has been created using this reactivity data. The utility is demonstrated by the easy and rapid one-pot assembly of various linear and branched oligosaccharide structures. In addition, a computer program has been described for use as a database search tool and guide for the selection of building blocks for the one-pot assembly of a desired oligosaccharide or a library of individual oligosaccharides.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L104 ANSWER 2 OF 17 USPTAFULL on STN

ACCESSION NUMBER: 2003:294853 USPTAFULL

TITLE: Sulphonamide derivatives as prodrugs of aspartyl protease inhibitors

INVENTOR(S): Tung, Roger Dennis, Beverly, MA, UNITED STATES
Hale, Michael Robin, Bedford, MA, UNITED STATES
Baker, Christopher Todd, Waltham, MA, UNITED STATES

Searcher : Shears 571-272-2528

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Furfine, Eric Steven, Durham, NC, UNITED STATES
Kaldor, Istvan, Durham, NC, UNITED STATES
Kazmierski, Wieslaw Mieczylaw, Raleigh, NC, UNITED STATES
Spaltenstein, Andrew, Raleigh, NC, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003207871	A1	20031106
APPLICATION INFO.:	US 2003-370171	A1	20030219 (10)
RELATED APPLN. INFO.:	Division of Ser. No. US 2000-602494, filed on 23 Jun 2000, GRANTED, Pat. No. US 6559137 Continuation of Ser. No. WO 1998-US4595, filed on 9 Mar 1998, PENDING Continuation-in-part of Ser. No. US 1997-998050, filed on 24 Dec 1997, GRANTED, Pat. No. US 6436989		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	FISH & NEAVE, 1251 AVENUE OF THE AMERICAS, 50TH FLOOR, NEW YORK, NY, 10020-1105		
NUMBER OF CLAIMS:	27		
EXEMPLARY CLAIM:	1		
LINE COUNT:	2045		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to prodrugs of a class of sulfonamides which are aspartyl protease inhibitors. In one embodiment, this invention relates to a novel class of prodrugs of HIV aspartyl protease inhibitors characterized by favorable aqueous solubility, high oral bioavailability and facile in vivo generation of the active ingredient. This invention also relates to pharmaceutical compositions comprising these prodrugs. The prodrugs and pharmaceutical compositions of this invention are particularly well suited for decreasing the pill burden and increasing patient compliance. This invention also relates to methods of treating mammals with these prodrugs and pharmaceutical compositions.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L104 ANSWER 3 OF 17 USPTFULL on STN

ACCESSION NUMBER: 2003:201363 USPTFULL
TITLE: Benzophenone alpha-d-glycopyranosides, preparation and therapeutic use
INVENTOR(S): Lebreton, Luc, Dijon, FRANCE
Legendre, Christiane, Velars-sur-Ouche, FRANCE
Samreth, Soth, Daix, FRANCE

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003139349	A1	20030724
APPLICATION INFO.:	US 2002-168210	A1	20020905 (10)
	WO 2000-FR3420		20001206
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	MERCHANT & GOULD PC, P.O. BOX 2903, MINNEAPOLIS, MN, 55402-0903		
NUMBER OF CLAIMS:	10		
EXEMPLARY CLAIM:	1		

Searcher : Shears 571-272-2528

LINE COUNT: 388

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention concerns (i) [4-(4-cyanobenzyl)phenyl] α -D-glycopyranosides of formula (I) wherein: the group α -D-glycopyranosyl R represents a α -D-glycopyranosyl, α -D-galactopyranosyl, α -D-mannopyranosyl, α -D-arabinopyranosyl, α -D-lyxopyranosyl, or α -D-ribopyranosyl group: (ii) their esters resulting from the esterification of at least a OH function of each pyranosyl group with a C.sub.2-C.sub.4 alkanolic or a cycloalkanoic acid, as novel industrial products. Said novel [4-(4-cyanobenzyl)phenyl] α -D-glycopyranosides are useful in therapy for fighting against atheromatous plaque.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L104 ANSWER 4 OF 17 USPATFULL on STN

ACCESSION NUMBER: 2003:123339 USPATFULL

TITLE: Sulphonamide derivatives as prodrugs of aspartyl protease inhibitors

INVENTOR(S): Tung, Roger Dennis, Beverly, MA, United States
Hale, Michael Robin, Bedford, MA, United States
Baker, Christopher Todd, Waltham, MA, United States
Furfine, Eric Steven, Durham, NC, United States
Kaldor, Istvan, Durham, NC, United States
Kazmierski, Wieslaw Mieczylaw, Raleigh, NC, United States

PATENT ASSIGNEE(S): Spaltenstein, Andrew, Raleigh, NC, United States
Vertex Pharmaceuticals Incorporated, Cambridge, MA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6559137	B1	20030506
APPLICATION INFO.:	US 2000-602494		20000623 (9)
RELATED APPLN. INFO.:	Continuation of Ser. No. WO 1998-US4595, filed on 9 Mar 1998 Continuation of Ser. No. US 1997-998050, filed on 24 Dec 1997, now patented, Pat. No. US 6436989		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Raymond, Richard L.		
LEGAL REPRESENTATIVE:	Haley, Jr., James F., Wang, Min, Fish & Neave		
NUMBER OF CLAIMS:	41		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	0 Drawing Figure(s); 0 Drawing Page(s)		
LINE COUNT:	2267		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to prodrugs of a class of sulfonamides which are aspartyl protease inhibitors. In one embodiment, this invention relates to a novel class of prodrugs of HIV aspartyl protease inhibitors characterized by favorable aqueous solubility, high oral bioavailability and facile in vivo generation of the active ingredient. This invention also relates to pharmaceutical compositions comprising these prodrugs. The prodrugs and pharmaceutical compositions of this invention are particularly well suited for decreasing the pill burden and increasing patient compliance. This invention also relates to methods of treating mammals with these prodrugs and pharmaceutical

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compositions.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L104 ANSWER 5 OF 17 USPATFULL on STN

ACCESSION NUMBER: 2003:81803 USPATFULL

TITLE: Programmable one-pot oligosaccharide synthesis

INVENTOR(S): Wong, Chi-Huey, Rancho Santa Fe, CA, United States

Zhang, Zhiyuan, San Diego, CA, United States

Ollmann, Ian, Foster City, CA, United States

Baasov, Timor, Haifa, ISRAEL

Ye, Xin-Shan, Beijing, CHINA

PATENT ASSIGNEE(S): The Scripps Research Institute, La Jolla, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6538117	B1	20030325
	WO 2000009527		20000224
APPLICATION INFO.:	US 2001-762377		20010710 (9)
	WO 1999-US18151		19990810
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Barts, Samuel		
ASSISTANT EXAMINER:	Khare, Devesh		
LEGAL REPRESENTATIVE:	Lewis, Donald G., Fitting, Thomas		
NUMBER OF CLAIMS:	3		
EXEMPLARY CLAIM:	3		
NUMBER OF DRAWINGS:	33 Drawing Figure(s); 32 Drawing Page(s)		
LINE COUNT:	2503		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The reactivity of a number of p-methylphenyl thioglycoside (STol) donors which are either fully protected or have one hydroxyl group exposed has been quantitatively determined by HPLC in conjunction with the development of a broadly applicable approach for a facile one-pot synthesis of oligosaccharides. The influence on reactivity of the structural effects of different monosaccharide cores and different protecting groups on each glycoside donor is characterized and quantified. In addition, a correlation between glycosyl donor reactivity and the chemical shift of the anomeric proton by ¹H NMR has been established. A database of thioglycosides as glycosyl donors has been created using this reactivity data. The utility is demonstrated by the easy and rapid one-pot assembly of various linear and branched oligosaccharide structures. In addition, a computer program has been described for use as a database search tool and guide for the selection of building blocks for the one-pot assembly of a desired oligosaccharide or a library of individual oligosaccharides.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L104 ANSWER 6 OF 17 USPATFULL on STN

ACCESSION NUMBER: 2002:332719 USPATFULL

TITLE: Benzo[b]pyran derivatives useful as external agents for the skin

INVENTOR(S): Hattori, Takao, Yokohama, JAPAN

Katagiri, Takayuki, Yokohama, JAPAN

Searcher : Shears 571-272-2528

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PATENT ASSIGNEE(S): Kitada, Yoshio, Yokohama, JAPAN
Yoshida, Takashi, Okayama, JAPAN
Ito, Hideyuki, Okayama, JAPAN
Pola Chemical Industries Inc., Shizuoka, JAPAN
(non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6495524	B1	20021217
	WO 9938858		19990805
APPLICATION INFO.:	US 2000-600617		20001010 (9)
	WO 1999-JP358		19990128

	NUMBER	DATE
PRIORITY INFORMATION:	JP 1998-30578	19980128
	JP 1998-164350	19980528
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	Barts, Samuel	
ASSISTANT EXAMINER:	Henry, Michael C.	
LEGAL REPRESENTATIVE:	Knobbe, Martens, Olson & Bear, LLP	
NUMBER OF CLAIMS:	23	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	0 Drawing Figure(s); 0 Drawing Page(s)	
LINE COUNT:	669	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB To provide an external agent for thee skin that not only exhibits excellent effects of prevention and amelioration of skin pigmentation but also has no fear of giving adverse influences to the skin and can be used safely, there is added to an external agent for the skin one or more compound(s) selected from compounds represented by formula (I) below: ##STR1##

(wherein R.sub.1, R.sub.2, R.sub.3, R.sub.4, and R.sub.5, independently represent a hydrogen atom or an alkyl group having 1 to 4 carbon atoms; and R represents a hydrogen atom, an acyl group, or a sugar residue).

CAS INDEXING IS AVAILABLE FOR THIS PATENT..

L104 ANSWER 7 OF 17 USPTFULL on STN

ACCESSION NUMBER: 2002:209566 USPTFULL
TITLE: Prodrugs of aspartyl protease inhibitors
INVENTOR(S): Hale, Michael R., Bedford, MA, United States
Tung, Roger D., Arlington, MA, United States
Baker, Christopher T., Waltham, MA, United States
Spaltenstein, Andrew, Raleigh, NC, United States
PATENT ASSIGNEE(S): Vertex Pharmaceuticals, Incorporated, Cambridge, MA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6436989	B1	20020820
APPLICATION INFO.:	US 1997-998050		19971224 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		

Searcher : Shears 571-272-2528

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PRIMARY EXAMINER: Coleman, Brenda
LEGAL REPRESENTATIVE: Fish & Neave, Haley, Jr., James F., Wang, Min
NUMBER OF CLAIMS: 12
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 0 Drawing Figure(s); 0 Drawing Page(s)
LINE COUNT: 1628

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to prodrugs of a class of sulfonamides which are aspartyl protease inhibitors. In one embodiment, this invention relates to a novel class of prodrugs of HIV aspartyl protease inhibitors characterized by favorable aqueous solubility, high oral bioavailability and facile in vivo generation of the active ingredient. This invention also relates to pharmaceutical compositions comprising these prodrugs. The prodrugs and pharmaceutical compositions of this invention are particularly well suited for decreasing the pill burden and increasing patient compliance. This invention also relates to methods of treating mammals with these prodrugs and pharmaceutical compositions.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L104 ANSWER 8 OF 17 USPATFULL on STN

ACCESSION NUMBER: 2002:206618 USPATFULL
TITLE: O-aryl glucoside SGLT2 inhibitors and method
INVENTOR(S): Washburn, William N., Titusville, NJ, UNITED STATES
Sher, Philip M., Plainsboro, NJ, UNITED STATES
Wu, Gang, Princeton, NJ, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002111315	A1	20020815
	US 6683056	B2	20040127
APPLICATION INFO.:	US 2001-791512	A1	20010223 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-193094P	20000330 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	MARLA J MATHIAS, BRISTOL-MYERS SQUIBB COMPANY, PATENT DEPARTMENT, P O BOX 4000, PRINCETON, NJ, 08543-4000	
NUMBER OF CLAIMS:	26	
EXEMPLARY CLAIM:	1	
LINE COUNT:	1753	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB ##STR1##

wherein

when Y is ##STR2##

or heteroaryl;

A is --O(CH.sub.2).sub.m, S, --NH(CH.sub.2).sub.m, or (CH.sub.2).sub.n
where n is 0-3 and m is 0-2;

Searcher : Shears 571-272-2528

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and R.sup.1 to R.sup.6 are as defined herein.

A method is also provided for treating diabetes and related diseases employing an SGLT2 inhibiting amount of the above compound alone or in combination with one, two or more other antidiabetic agents, and/or one, two or more hypolipidemic agents.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L104 ANSWER 9 OF 17 USPATFULL on STN

ACCESSION NUMBER: 2002:186263 USPATFULL

TITLE: Processes for the preparation of alphaGal(1-3)betaGal(1-4)Glc-OR

INVENTOR(S): Ratcliffe, Murray R., Cochrane, CANADA
Gregson, Jonathan M., Calgary, CANADA
Kamath, Vivek P., Calgary, CANADA
Yeske, Robert E., Calgary, CANADA

PATENT ASSIGNEE(S): Synsorb Biotech, Inc., NW Calgary, CANADA (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002099186	A1	20020725
APPLICATION INFO.:	US 2001-986537	A1	20011109 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-250190P	20001129 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	BURNS DOANE SWECKER & MATHIS L L P, POST OFFICE BOX 1404, ALEXANDRIA, VA, 22313-1404	
NUMBER OF CLAIMS:	8	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	2 Drawing Page(s)	
LINE COUNT:	1087	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Disclosed are novel synthetic processes for the preparation of the trisaccharide α Gal(1-3) β Gal(1-4)Glc-OR compounds.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L104 ANSWER 10 OF 17 USPATFULL on STN

ACCESSION NUMBER: 2002:164352 USPATFULL

TITLE: Apparatus and methods for the automated synthesis of oligosaccharides

INVENTOR(S): Seeberger, Peter H., Cambridge, MA, UNITED STATES
Plante, Obadiah J., Beverly, MA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002085964	A1	20020704
APPLICATION INFO.:	US 2001-932277	A1	20010817 (9)

NUMBER	DATE
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Searcher : Shears 571-272-2528

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PRIORITY INFORMATION: US 2000-226169P 20000818 (60)
US 2000-254233P 20001208 (60)
DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: FOLEY, HOAG & ELIOT, LLP, PATENT GROUP, ONE POST OFFICE
SQUARE, BOSTON, MA, 02109
NUMBER OF CLAIMS: 58
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 22 Drawing Page(s)
LINE COUNT: 1947

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB One aspect of the present invention relates to an apparatus for the efficient synthesis of oligosaccharides on a solid support, e.g., formed by subunit addition to terminal subunits immobilized on solid-phase particles. In certain embodiments, the apparatus of the present invention is used in combinatorial methods, e.g., as described herein, of synthesizing oligosaccharides.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L104 ANSWER 11 OF 17 USPATFULL on STN

ACCESSION NUMBER: 2002:99425 USPATFULL
TITLE: O-glucosylated benzamide SGLT2 inhibitors and method
INVENTOR(S): Washburn, William N., Titusville, NJ, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002052326	A1	20020502
	US 6555519	B2	20030429
APPLICATION INFO.:	US 2001-791186	A1	20010223 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-193308P	20000330 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	MARLA J MATHIAS, BRISTOL-MYERS SQUIBB COMPANY, PATENT DEPARTMENT, P O BOX 4000, PRINCETON, NJ, 08543-4000	
NUMBER OF CLAIMS:	24	
EXEMPLARY CLAIM:	1	
LINE COUNT:	1420	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB SGLT2 inhibiting compounds are provided having the formula ##STR1##

wherein

n is 0, 1 or 2;

A is ##STR2##

or heteroaryl which may contain 1 to 4 heteroatoms in the ring which may be selected from N, O, S, SO, and/or SO.sub.2, bearing substituents R.sup.3 and R.sup.4;

and R.sup.1 to R.sup.4 are as defined herein.

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A method is also provided for treating diabetes and related diseases employing an SGLT2 inhibiting amount of the above compound alone or in combination with one, two or more other antidiabetic agents and/or one, two or more hypolipidemic agents.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L104 ANSWER 12 OF 17 USPATFULL on STN

ACCESSION NUMBER: 1999:24630 USPATFULL

TITLE: Oligosaccharide glycosides having mammalian immunosuppressive and tolerogenic properties

INVENTOR(S): Srivastava, Om P., Edmonton, Canada
Srivastava, Geeta, Edmonton, Canada
Szveda, Roman, Edmonton, Canada
Bundle, David R., Edmonton, Canada
Hindsgaul, Ole, Edmonton, Canada
Hanna, H. Rizk, Edmonton, Canada
Holme, Kevin, Alameda, CA, United States
Barresi, Frank W., Edmonton, Canada
Du, Minghui, Edmonton, Canada

PATENT ASSIGNEE(S): Glycomed Incorporated, Alameda, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5874411		19990223
APPLICATION INFO.:	US 1996-754097		19961113 (8)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1995-6593P	19951113 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Fonda, Kathleen K.	
LEGAL REPRESENTATIVE:	Burns, Doanes, Swecker & Mathis LLP	
NUMBER OF CLAIMS:	11	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	54 Drawing Figure(s); 53 Drawing Page(s)	
LINE COUNT:	5991	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Disclosed are novel oligosaccharide glycosides having mammalian immunosuppressive and tolerogenic properties, pharmaceutical compositions containing such oligosaccharide glycosides and to methods of using such oligosaccharide glycosides to modulate cell-mediated immune responses in a mammal.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L104 ANSWER 13 OF 17 USPATFULL on STN

ACCESSION NUMBER: 1998:92193 USPATFULL

TITLE: Selectively fluorinated organic compounds

INVENTOR(S): Chambers, Richard Dickinson, Durham, United Kingdom
Sandford, Graham, Durham, United Kingdom

PATENT ASSIGNEE(S): British Nuclear Fuels plc, Warrington, England
(non-U.S. corporation)

Searcher : Shears 571-272-2528

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	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5789580		19980804
	WO 9603357		19960208
APPLICATION INFO.:	US 1996-619498		19960425 (8)
	WO 1995-GB1765		19950726
			19960425 PCT 371 date
			19960425 PCT 102(e) date

	NUMBER	DATE
PRIORITY INFORMATION:	GB 1994-14974	19940726
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Kight, John	
ASSISTANT EXAMINER:	Lee, Howard C.	
LEGAL REPRESENTATIVE:	Sheridan Ross P.C.	
NUMBER OF CLAIMS:	18	
EXEMPLARY CLAIM:	1	
LINE COUNT:	449	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A process for the preparation of a selectively fluorinated organic compound, which process includes reaction of a precursor of said organic compound, the precursor containing at least one Group VI element selected from sulfur, selenium and tellurium, with a fluorinating agent and another halogenating agent and characterized in that the fluorinating agent is elemental fluorine.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L104 ANSWER 14 OF 17 USPATFULL on STN
ACCESSION NUMBER: 93:46407 USPATFULL
TITLE: Condensed quinoline system N-glycosides
INVENTOR(S): Yamato, Masatoshi, Okayama, Japan
Hashigaki, Kuniko, Okayama, Japan
PATENT ASSIGNEE(S): Mect Corporation, Tokyo, Japan (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5217961		19930608
APPLICATION INFO.:	US 1991-759615		19910916 (7)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1989-451363, filed on 15 Dec 1989, now abandoned		

	NUMBER	DATE
PRIORITY INFORMATION:	JP 1988-330674	19881227
	JP 1989-282208	19891030
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Brown, Johnnie R.	
ASSISTANT EXAMINER:	Kunz, Gary L.	
LEGAL REPRESENTATIVE:	Oblon, Spivak, McClelland, Maier & Neustadt	
NUMBER OF CLAIMS:	4	
EXEMPLARY CLAIM:	1	

Searcher : Shears 571-272-2528

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LINE COUNT: 1324

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides condensed quinoline compounds represented by the following general formula (I): ##STR1## in which Z is NH, X is hydrogen, L is lower alkoxy, M is NHQ, Q is --SO.sub.2 CH.sub.3, Y is --NHR, and R is: ##STR2## These compounds are effective for inhibiting KB-cell growth and prolongation of the life span of mice implanted with tumor P-388.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L104 ANSWER 15 OF 17 USPATFULL on STN

ACCESSION NUMBER: 91:73489 USPATFULL

TITLE: Separation of isomers of furo (3,4-C) pyridine derivatives

INVENTOR(S): Esanu, Andre, Paris, France
Eck, Charles, Shrewsbury, MA, United States

PATENT ASSIGNEE(S): Societe de Conseils de Recherches et d'Applications
Scientifiques (S.C.R.A.S.), France (non-U.S.
corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5047537		19910910
APPLICATION INFO.:	US 1990-598653		19901018 (7)
	WO 1990-FR228		19900402
			19901018 PCT 371 date
			19901018 PCT 102(e) date

	NUMBER	DATE
PRIORITY INFORMATION:	GB 1989-7480	19890403
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Dentz, Bernard	
LEGAL REPRESENTATIVE:	Lucas & Just	
NUMBER OF CLAIMS:	5	
EXEMPLARY CLAIM:	1	
LINE COUNT:	304	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention relates to a method for the separation of stereoisomers of 7-hydroxy-furo[3,4-c]pyridine derivatives of the formula ##STR1## wherein R.sub.3, R.sub.4 and R.sub.6 represent various substituents, which comprises reacting a fully O-acetylated monosaccharide halogenide with a racemate of the selected 7-hydroxy-furo[3,4-c]pyridine derivative, to form the (+) and (-) (O-acetylated monosaccharide) (furo[3,4-c] pyridine 7-yl derivative) ethers, then separating the (+) and the (-) ethers by selective crystallization, in an hydroalcoholic medium, either of the acetylated forms or of the corresponding desacetylated forms and, finally, working up each of the separated derivatives by the usual routes. The compounds are known pharmaceuticals.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L104 ANSWER 16 OF 17 USPATFULL on STN

Searcher : Shears 571-272-2528

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ACCESSION NUMBER: 89:67455 USPATFULL
TITLE: 13 β -alkylmilbemycin derivatives for controlling
parasites of animals and plants
INVENTOR(S): Frei, Bruno, Liestal, Switzerland
O'Sullivan, Anthony C., Basel, Switzerland
Gehret, Jean-Claude, Aesch, Switzerland
PATENT ASSIGNEE(S): CIBA-GEIGY Corporation, Ardsley, NY, United States
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 4857509		19890815
APPLICATION INFO.:	US 1986-820490		19860117 (6)

	NUMBER	DATE
PRIORITY INFORMATION:	CH 1985-278	19850122
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Brown, Johnnie R.	
ASSISTANT EXAMINER:	Peselev, Elli	
LEGAL REPRESENTATIVE:	Roberts, Edward McC., Findlay, Meredith C.	
NUMBER OF CLAIMS:	18	
EXEMPLARY CLAIM:	1,14	
LINE COUNT:	1315	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention relates to parasitocidally and insecticidally highly active compounds of formula I ##STR1## wherein R is C.sub.1 -C.sub.10 alkyl;

R.sub.1 is hydrogen, a silyl group or a sugar residue; and

R.sub.2 is methyl, ethyl, isopropyl or sec-butyl, and to the preparation thereof starting from suitably substituted 15-ester or 13 β -ester milbemycins.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L104 ANSWER 17 OF 17 USPATFULL on STN

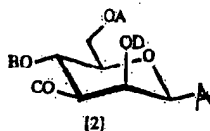
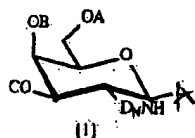
ACCESSION NUMBER: 84:56932 USPATFULL
TITLE: Cyclic polyamino containing compounds having
therapeutic effect and the preparation thereof
INVENTOR(S): Itokawa, Hideji, Tokyo, Japan
PATENT ASSIGNEE(S): Tobishi Pharmaceutical Co., Ltd., Tokyo, Japan
(non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 4476299		19841009
APPLICATION INFO.:	US 1982-401865		19820726 (6)

	NUMBER	DATE
PRIORITY INFORMATION:	JP 1981-117968	19810728
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	

Searcher : Shears 571-272-2528

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A-D=Orthogonal Hydroxy Protecting Groups
 D_N=Orthogonal Amino Protecting Group
 P=Permanent Protecting Group (Benzoyl)
 L=Activating Group

A is a leaving group selected from the group consisting of halogen, trichloroacetimidoyl, sulfoxide, -O-alkenyl; and -SR, where R is alkyl, alkenyl, alkynyl, cycloalkyl or aryl.

X₁, X₂, and X₃ are independently selected from H, O, N, or N₃, with the proviso that only one of X₁, X₂, and X₃ is H, N or N₃ in any molecule;

X₄ is -CH₂O; and

B, C, D and E are different and of them B, C, or D is absent if the corresponding X₁ to X₃ is H or N₃, and B, C, D and/or E are selected from protecting groups which can be cleaved orthogonally in any order, such that the cleavage conditions do not compromise the stability of the other protecting or functional groups on the monosaccharide building block, wherein the protecting groups for hydroxy protection are selected from the group consisting of acyl-type protecting groups, carbonates, *t*-butyldiphenylsilyl, triisopropylsilyl, trimethylsilylethyl, triphenylsilylethyl, trifluoromethyl, trichloromethyloxymethyl, trichloromethyloxycarbonate, ethoxyethyl, cyanoethyl, NSC (p-nitrobenzyl-sulphonylethyloxycarbonyl), p-nitrobenzyl-sulphonylethyl, naphthylmethyl, substituted naphthylmethyl, p-methoxybenzyl, 3,4-dimethoxybenzyl, 2,4,6-trimethoxybenzyl, 3,4-methylenedioxybenzyl, acylamidobenzyl, azidobenzyl, p-azido-m-chlorobenzyl, allylic protecting groups, o-nitrobenzyloxycarbonate, o-

Note: X₁-X₃ = O and X₄= -CH₂O in the above figures.

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PRIMARY EXAMINER: Brown, Johnnie R.
ASSISTANT EXAMINER: Peselev, Elli
LEGAL REPRESENTATIVE: Bucknam and Archer
NUMBER OF CLAIMS: 4
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 3 Drawing Figure(s); 3 Drawing Page(s)
LINE COUNT: 662

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB New compounds of the following general formula: ##STR1## wherein R.sub.1 is acyl, alkyl, cycloalkyl, carboxyalkyl or ester thereof, heterocyclic group, saccharide residue or hydrogen atom, R.sub.2 stands for hydrogen atom or a lower alkyl and R.sub.3 represents hydrogen atom or a nitrogen-containing group,

are provided, among these, some of the compounds to be isolated and purified from a plant belonging to Genus Rubia, other compounds being prepared by chemically modifying the isolated compounds with various kind of substituents and these new compounds having therapeutic effect, in particular such as antineoplastic, emetic, anorexigenic, psychotropic, vasoconstrictive, papaverinic, antiparkinsonian and/or antidiuretic effect.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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